

Title (en)

SHROUD RETENTION SYSTEM WITH KEYED RETENTION CLIPS

Title (de)

UMMANTELUNGSRÜCKHALTESYSTEM MIT CODIERTEN HALTECLIPS

Title (fr)

SYSTÈME DE RÉTENTION DE CARÉNAGE AVEC DES CLIPS DE RETENUE CLAVETÉS

Publication

EP 3093455 A1 20161116 (EN)

Application

EP 16168855 A 20160510

Priority

US 201514709041 A 20150511

Abstract (en)

A shroud retention system (100) may include a shroud hanger (102) having an outer hanger wall (110) that defines a clip groove (124) including a narrow groove portion (154) and an enlarged groove portion (158), with the enlarged groove portion (158) defining a radial height (162) that is greater than a radial height (164) of the narrow groove portion (154). The system (100) may also include a shroud segment (104) having a shroud wall (140) and a retention clip (106) configured to couple the shroud segment (104) to the shroud hanger (102). The retention clip (106) may include an inner rail (146), an outer rail (148) and a clip wall (150) extending radially between the inner (146) and outer rails (148). The inner rail (146) may be configured to extend along an inner surface (152) of the shroud wall (140). The outer rail (148) may include a narrow rail portion (166) configured to be received within the narrow groove portion (154) and an enlarged rail portion (170) configured to be received within the enlarged groove portion (158).

IPC 8 full level

F01D 25/24 (2006.01); **F01D 11/08** (2006.01)

CPC (source: CN EP US)

F01D 9/04 (2013.01 - US); **F01D 11/08** (2013.01 - EP US); **F01D 25/24** (2013.01 - CN); **F01D 25/246** (2013.01 - EP US); **F01D 25/28** (2013.01 - CN); **F05D 2220/32** (2013.01 - CN US); **F05D 2240/11** (2013.01 - US); **F05D 2260/30** (2013.01 - EP US); **F05D 2300/6033** (2013.01 - US); **Y02T 50/60** (2013.01 - EP US)

Citation (search report)

- [A] EP 1079076 A2 20010228 - GEN ELECTRIC [US]
- [A] EP 1577506 A1 20050921 - SNECMA [FR]
- [A] EP 1099826 A1 20010516 - SNECMA MOTEURS [FR]

Cited by

US11365644B2; US11008894B2; US10934877B2; EP3647549A1; WO2020068114A1; EP3760836A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3093455 A1 20161116; **EP 3093455 B1 20180418**; CA 2929159 A1 20161111; CN 106321170 A 20170111; CN 106321170 B 20180703; JP 2016211577 A 20161215; JP 6186472 B2 20170823; US 2016333740 A1 20161117; US 9828879 B2 20171128

DOCDB simple family (application)

EP 16168855 A 20160510; CA 2929159 A 20160506; CN 201610656934 A 20160511; JP 2016093540 A 20160509; US 201514709041 A 20150511